

IVa: 5'-CGGGTGTGT (SEQ. ID. NO. 4)

IVb: CGGCCGCGG-3' (SEQ. ID. NO. 5) --

On page 70, line 11 after "5'-GCCCACACCGCCGGCGCC-3'", insert -- (SEQ. ID. NO. 6) --;

A test sample containing 5' -GCCCACACCGCCGGCGCC-3 (SEQ. ID. NO. 6) is prepared and allowed to contact the cleavable signal element at a temperature that approximates the T_m of the side members Ia and Ib. The temperature of the sample solution is heated to about 20 degrees Centigrade above the T_m . Subsequently, the signal element is treated with 0.1M sodium fluoride solution and washed. Spacer molecules remaining attached to the surface signal the presence of, and tethering by, 5' -GCCCACACCGCCGGCGCC-3' (SEQ. ID. NO. 6).

line 19, after "5'-GCCCACACCGCCGGCGCC-3'", insert -- (SEQ.

ID. NO. 6) --;

A test sample containing 5' -GCCCACACCGCCGGCGCC-3 (SEQ. ID. NO. 6) is prepared and allowed to contact the cleavable signal element at a temperature that approximates the T_m of the side members Ia and Ib. The temperature of the sample solution is heated to about 20 degrees Centigrade above the T_m . Subsequently, the signal element is treated with 0.1M sodium fluoride solution and washed. Spacer molecules remaining attached to the surface signal the presence of, and tethering by, 5' -GCCCACACCGCCGGCGCC-3' (SEQ. ID. NO. 6).

line 21, after "5'GCCCACACTGCCGGCGCC-3'", insert -- (SEQ. ID. NO. 7) --;

line 21, delete "5-GCCCACACGGCCGGCGCC-3'", and insert -- 5'-GCCCACACGGCCGGCGCC-3' (SEQ. ID. NO. 8) --; and

line 22, after "5'-GCCCACAGCCGGCGCC-3'", insert -- (SEQ. ID. NO. 9) --.

On page 71, line 14, after "TGT-3'" insert -- (SEQ. ID. NO. 10); and

Primer 1: 5' -TGA GAC ACC AGG AAT TAG ATA TCA GTA CAA-TGT-3' (SEQ. ID. NO.

10)

On page 71, line 15, after "TGT-3'", insert -- (SEQ. ID. NO. 11) --.

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CONT.

Primer 2: 5' -CTA AAT CAG ATC CTA CAT ATA AGT CAT CCA TGT-3' (SEQ. ID. NO.

11)

On page 72, line 1, after "CAA-3'", insert - (SEQ. ID. NO. 12) --; and

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Cleavable spacers with siloxane moiety are synthesized and attached in a uniform density to a derivatized 120 mm polycarbonate disk substrate essentially as set forth in sections 5.2 and 5.3 hereinabove. The following side members are then stamped on the cleavable spacers:

first side member: 5' -TAG ATA TCA GTA CAA-3' (SEQ. ID. NO. 12)

line 2, after "ACA-5'", insert - (SEQ. ID. NO. 13).

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second side member: 3' -TAT TCA GTA GGT ACA-5' (SEQ. ID. NO. 13)

After page 72, please add the attached SEQUENCE LISTING (new pages 73-76).

IN THE ABSTRACT

Please delete the present abstract as follows:

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[A cleavable signal element for use in quantitative and qualitative assay devices and methods is described. Binding of the chosen analyte simultaneously to a first and second analyte-specific side member of the cleavable signal element tethers the signal-responsive moiety to the signal element's substrate-attaching end, despite subsequent cleavage at the cleavage site that lies intermediate the first and second side members. Assay devices comprising the cleavable signal elements are described, as are analytic methods adapted to their use. The analytic devices of the present invention may be adapted to detection using conventional CD-ROM or DVD readers.]

and substitute therefor the following new Abstract:

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-- An assay device and method includes assay sectors provided within a software encoded laser detector readable disc. A sample inlet port is associated with each of the sectors which include analyte binding elements segregated within the disc. The computer software is encoded in an area of a substrate of the disc which is spatially distinct from the assay sectors for independent reading of the elements relative the software by the same laser and laser disc reader. The exemplary analyte binding